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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/955,125	09/19/2001	Kohji Numata	Q66262	8416	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W.			EXAMINER		
			CHOWDHURY, NIGAR		
Washington, DC 20037-3202			ART UNIT	PAPER NUMBER	
			2621		
			MAIL DATE	DELIVERY MODE	
			06/25/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	09/955,125	NUMATA, KOHJI					
Office Action Summary	Examiner	Art Unit					
	NIGAR CHOWDHURY	2621					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>02 Ar</u>	oril 2008						
							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-40</u> is/are pending in the application.							
,—	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-40</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement						
are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on 19 September 2001 is/a	10)⊠ The drawing(s) filed on <u>19 September 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex		, ,					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. ☐ Certified copies of the priority documents	s have been received						
2. Certified copies of the priority documents		on No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Goo the attached detailed emoc deticn for a list of	or the contined copies het reserve	u .					
Attachment(s)	A) []	(PTO 442)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:						

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/02/2008 has been entered.

Response to Arguments

- 1. Applicant's arguments filed on 04/02/2008 have been fully considered but they are not persuasive.
- 2. In re page 17-18, applicant argues that Faroudja discloses a playback device which recovering a progressively scanned signal from a DVD but fails to disclose acquiring a scanning line number from a range of scanning lines being scanned on a display, and adjusting a timing for a display changeover specification based on the scanning line number recited in claim 1

In response, the examiner respectfully disagrees. Faroudja discloses from col.

11 lines 54-col. 13 lines 14 that "Fig. 13....The 525- or 625-lineprogressively scanned video data may be provided for an advanced display output along with the

motion information and an indication that the data is 525 or 625 lines....converts 525line video data to 625-line...scanned video data....525 or 625 line ...scanned video data may be provided for an advanced display output along with an indication that the data is 525 or 625 lines....Fig. 15.....decoding of an HDTV Hz.....multiplier 58 receives the video data from the advanced displayed output of a decoder.... Along with the 525/625 line indication signal...."shorter rise and fall times without preshoot and overshoot"....". Faroudja discloses acquiring a scanning line number from a range of 525 or 625 scanning lines being scanned on a display of HDTV. Faroudja also discloses different aspect ratio such as 4:3 or 16:9 which inherently has different scanning line number depending on the aspect ratio to reproduce images for small or widescreen display screen. Based on the scanning line number or aspect ratio, timing for a display will change.

- 3. Claims 2-5, 9-10, 12-15, 19-20 22-25 are rejected for the same reason as discussed in the corresponding paragraph 2 above.
- 4. In re page 20, applicant argues that Faroudja and Yokogawa fail to acquiring a scanning line value from a range of scanning lines being scanned on a display recited in claims 6, 16, 26, 36

In response, the examiner respectfully disagrees. Claims 6, 16, 26, 36 are rejected for the same reason as discussed in the corresponding paragraph 2 above.

5. In response, the examiner respectfully disagrees. Claims 7-8, 17-18, 27-30, 37-40 are rejected for the same reason as discussed in the corresponding paragraph 1 above.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

6. Claims 1, 11, 21, 31 are rejected under 35 U.S.C. 102(b) as being anticipated by

US Patent No. 5,754,248 by Faroudja.

7. Regarding **claim 1**, a moving image reproduction system comprising a means for

acquiring a scanning line number from a range of acanning lines being scanned on a

display and means for adjusting a timing for a display changeover specification based

on the scanning line number (fig. 15, col. 12 lines 33-col. 13 lines 14).

8. Claims 11, 21, 31 are rejected for the same reason as discussed in

corresponding system claim 1 above

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

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9. Claims 2-5, 9-10, 12-15, 19-20, 22-25, 32-35 are rejected under 35 U.S.C. 103(a)

as being unpatentable over U.S. Patent No. 5,754,248 by Faroudja in view of US Patent

No. 6,396,874 by Kato.

10. Regarding claim 2, Faroudja discloses the means for acquiring the scanning line

number comprises a timing adjuster that acquires a scanning line number from a range

of scanning lines being scanned on display (fig. 15, col. 12 lines 33-col. 13 lines 14)

Faroudja fails to teach

A frame buffer including a plurality of buffers

• A storage for storing compressed image data encoded in an image

compression encoding scheme

A video decoder for reading out compressed image data from storage,

decoding compressed image data every one frame, and storing decoded

image data into frame buffer

An image storage buffer switch for switching between plurality of buffers

every time the compressed image data for one frame is decoded and

controlling so as to always store a previously decoded image and a

currently decoded image into frame buffer

A display controller for switching between plurality of buffers, to be

displayed during a next vertical blanking period, after reception of display

changeover specification and displaying image data on said display

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Kato discloses (Fig. 3. Col. 9 lines 23-Col. 10 lines19, Fig. 17. Col. 26 line 66-Col. 27 line 40)

- A frame buffer including a plurality of buffers (Fig. 17 (43-46))
- A storage for storing compressed image data encoded in an image compression encoding scheme (Col. 9 lines 30-39)
- A video decoder for reading out compressed image data from storage, decoding compressed image data every one frame, and storing decoded image data into frame buffer (Col. 27 lines 10-25)
- An image storage buffer switch for switching between plurality of buffers
 every time the compressed image data for one frame is decoded and
 controlling so as to always store a previously decoded image and a
 currently decoded image into frame buffer (Col. 27 lines 26-34)
- A display controller for switching between plurality of buffers, to be displayed during a next vertical blanking period, after reception of display changeover specification and displaying image data on said display (Col. 27 lines 26-34)

Therefore, it would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to modify the proposed combination of Faroudja's system to include plurality of buffers to store compressed image, switching system between plurality of buffers and display controller for switching, as taught by Kato, for advantage of providing buffer to store compressed image, decoder to read out compressed image,

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switch for switching between plurality of buffers, and display controller for displaying changeover specification.

11. Regarding **claim 3**, Faroudja discloses timing adjuster acquires a current scanning line from display (fig. 15, col. 12 lines 33-col. 13 lines 14) but Faroudja fails to disclose display controller.

Kato discloses display controller (Fig. 17 (51)). Therefore, it would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to modify the proposed combination of Faroudja's system to include display controller, as taught by Kato, for advantage of providing controller to control switch between plurality of buffers to display different buffer to the user.

- 12. Claims 4, 9, 12, 14, 19, 22, 24, 32, 34 are rejected for the same reason as discussed in corresponding system claim 2 above.
- 13. Claims 5, 10, 13, 20, 23, 25, 33, 35 are rejected for the same reason as discussed in corresponding system claim 3 above
- 14. Claims 6, 16, 26, 36 are rejected under 35 U.S.C. 103(a) as being anticipated over U.S. Patent No. 6,463,210 by Yokogawa in view of U.S. Patent No. 5,754,248 by Faroudja

15. Regarding **claim 6**, Yokogawa discloses a moving image reproduction system comprising a means for acquiring, when one frame is divided into two fields for displaying, a display scanning line value from a range of scanning lines being scanned on a display and adjusting a timing of a display changeover specification to display one of two fields based on display scanning line value (Col. 4 line 1-19) but Yokogawa fails to disclose a scanning lines value from a range of scanning lines being scanned on a display

Faroudja discloses a scanning lines value from a range of scanning lines being scanned on a display (fig. 15, col. 12 lines 33-col. 13 lines 14)

Therefore, it would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to modify the proposed combination of Yokogawa's system to include a range of scanning lines, as taught by Faroudja, to scan lines for displaying good quality of images in the screen.

- 16. Claims 16, 26, 36 are rejected for the same reason as discussed in corresponding system claim 6 above.
- 17. Regarding **claim 15**, Kato discloses storing image data stores each frame in one of plurality of buffers (Col. 27 lines 9-25)

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18. Claims 7-8, 17-18, 27-30, 37-40 are rejected under 35 U.S.C. 103(a) as being

unpatentable over U.S. Patent No. 6,463,210 by Yokogawa and U.S. Patent No.

5,754,248 by Faroudja in view of US Patent No. 6,396,874 by Kato.

19. Regarding claim 7, Yokogawa discloses the means for acquiring the scanning

line number comprises a timing adjuster (Col. 3 line 49-Col. 4 lines 19), Faroudja

discloses a scanning lines number from a range of scanning lines being scanned on a

display (fig. 15, col. 12 lines 33-col. 13 lines 14)

Yokogawa and Faroudja fail to teach

A frame buffer including a plurality of buffers

A storage for storing compressed image data encoded in an image

compression encoding scheme

A video decoder for reading out compressed image data from storage,

decoding compressed image data every one frame, and storing decoded

image data into frame buffer

An image storage buffer switch for switching between plurality of buffers

every time the compressed image data for one frame is decoded and

controlling so as to always store a previously decoded image and a

currently decoded image into frame buffer

A display controller for switching between plurality of buffers, to be

displayed during a next vertical blanking period, after reception of display

changeover specification and displaying image data on said display

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Kato discloses (Fig. 3. Col. 9 lines 23-Col. 10 lines19, Fig. 17. Col. 26 line 66-Col. 27 line 40)

- A frame buffer including a plurality of buffers (Fig. 17 (43-46))
- A storage for storing compressed image data encoded in an image compression encoding scheme (Col. 9 lines 30-39)
- A video decoder for reading out compressed image data from storage, decoding compressed image data every one frame, and storing decoded image data into frame buffer (Col. 27 lines 10-25)
- An image storage buffer switch for switching between plurality of buffers
 every time the compressed image data for one frame is decoded and
 controlling so as to always store a previously decoded image and a
 currently decoded image into frame buffer (Col. 27 lines 26-34)
- A display controller for switching between plurality of buffers, to be displayed during a next vertical blanking period, after reception of display changeover specification and displaying image data on said display (Col. 27 lines 26-34)

Therefore, it would have been obvious to one of the ordinary skill in the art at the time of applicant's invention to modify the proposed combination of Yokogawa and Faroudja's system to include plurality of buffers to store compressed image, switching system between plurality of buffers and display controller for switching, as taught by Kato, for advantage of providing buffer to store compressed image, decoder to read out

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compressed image, switch for switching between plurality of buffers, and display

controller for displaying changeover specification.

20. Regarding claim 8, Yokogawa discloses timing adjuster acquires a current

scanning line from display (Col. 4 lines 15-19), Faroudja discloses a scanning lines

number from a range of scanning lines being scanned on a display (fig. 15, col. 12 lines

33-col. 13 lines 14) but Yokogawa and Faroudja fail to disclose display controller.

Kato discloses display controller (Fig. 17 (51)). Therefore, it would have been

obvious to one of the ordinary skill in the art at the time of applicant's invention to modify

the proposed combination of Yokogawa and Faroudja's system to include display

controller, as taught by Kato, for advantage of providing controller to control switch

between plurality of buffers to display different buffer to the user.

21. Claims 7, 17, 27, 29, 37, 39 are rejected for the same reason as discussed in

corresponding system claim 7 above.

22. Claims 8, 18, 28, 30, 38, 40 are rejected for the same reason as discussed in

corresponding system claim 8 above

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to NIGAR CHOWDHURY whose telephone number is

(571)272-8890. The examiner can normally be reached on 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NC

06/20/2008

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621